# WAR PRODUCTION

BY

GENERAL MOTORS-HOLDEN'S LTD.

N
338.4762340944
W253




# 'ROUND THE G.M.H. FACTORIES IN AUSTRALIA

Here are a few pictures of typical G.M.H. people around the Company's factories. These are some of the men and women who are helping Australian Industry in its job of war production. Every day they're tackling some tough problem — but they're getting things done.

# A STATEMENT BY THE MANAGING DIRECTOR...

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28.10.94

THIS booklet has been prepared for the information of the members of the G.M.H. Family — Employees, Shareholders, Distributors, and Dealers.

Its publication is the result of many requests for authentic information about the Company's war production. Even employees have not known what is being done in other plants; and Shareholders, Distributors and Dealers have a natural interest in knowing the extent to which the Company's facilities have been turned over to the manufacture of war supplies. This booklet deals with much of the work we are doing but for obvious reasons, details of some of the projects cannot be given.

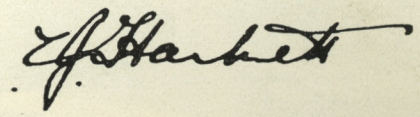
The G.M.H. Policy is clear cut and definite — the war effort comes first. Nothing is allowed to interfere with the execution of that policy. Today our activities are 80% to 90% devoted to war production. In this connection it is worth recalling that the Chairman, Hon. E. W. Holden, M.L.C., in his address at the last annual meeting of Shareholders said —

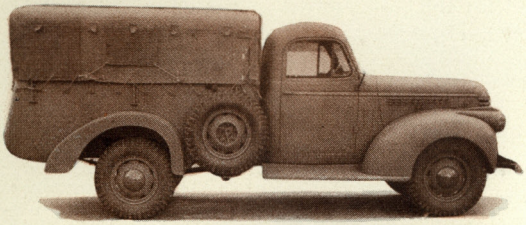
> "We are in a State of War when profits are a secondary consideration compared with the effectiveness of the Company's effort in playing its part in the War activities in Australia."

All employees from top to bottom are carrying on the Company's war policy with a willingness and enthusiasm that are outstanding. All are doing their best to support the Fighting Forces, including 750 of their own colleagues who have enlisted.

For some of the projects in our factories we act as organising contractors. In such cases we accept responsibility for final assembly and delivery of the particular products, making some of the components in our own Works and arranging for other of the parts to be made by other Manufacturers and Engineers. We are working with over 700 such firms at present. This system which has worked with conspicuous success has brought forward and made the most efficient use of the country's industrial skill.

Everyone at each of the General Motors-Holden's plants is doing his or her best to meet every demand for greater and faster war production. We are thankful that our peace-time experience of planning and organising for quantity production has helped us to handle this work efficiently.

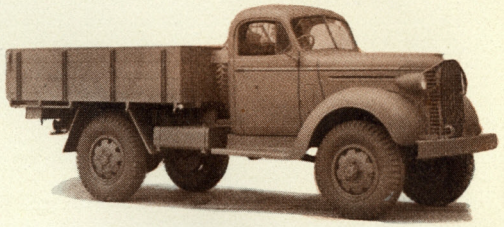




CHEVROLET 1-TON BASE BODY UNIT WITH CANOPY TOP

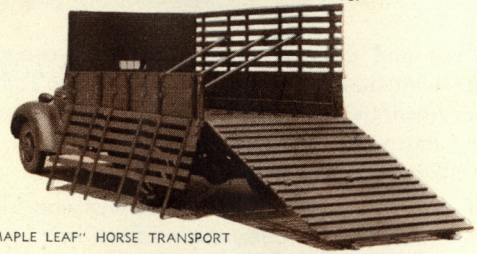


CHEVROLET GENERAL STORES WAGON

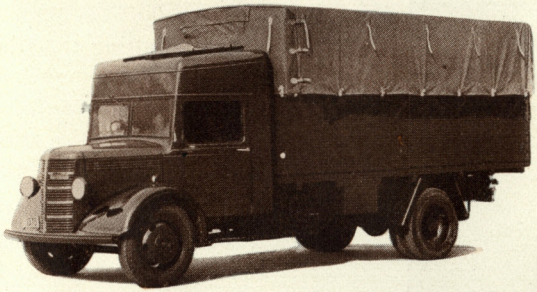


"MAPLE LEAF" 4-WHEEL DRIVE TRACTOR WITH FIXED SIDES BODY

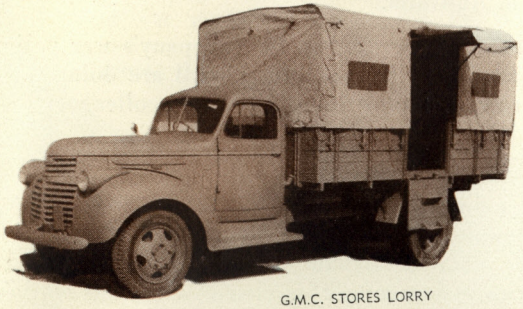
# *Vehicles for* ARMY NAVY and AIR FORCE



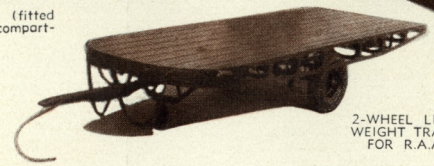
"MAPLE LEAF" HORSE TRANSPORT



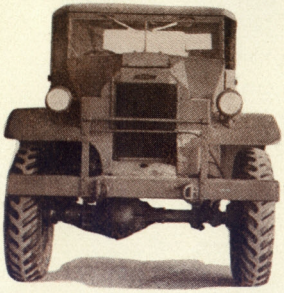
BEDFORD ARMOURED TENDER (fitted with swivel gun turret in driving compartment) FOR R.A.A.F



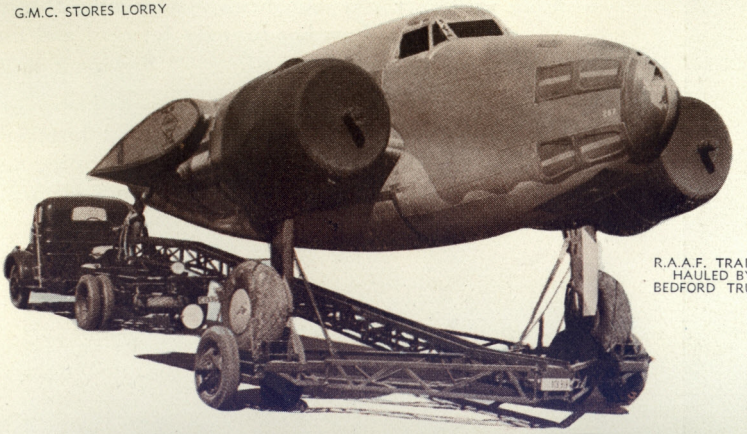
G.M.C. STORES LORRY



2-WHEEL LIGHT-WEIGHT TRAILER FOR R.A.A.F



SPECIAL CANADIAN 3-TON F.W.D. CHASSIS TO BRITISH WAR OFFICE SPECIFICATIONS

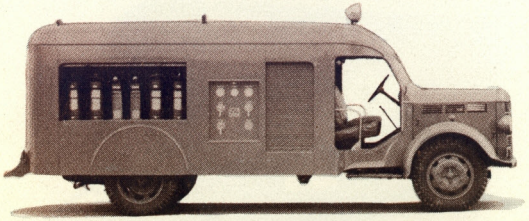


R.A.A.F. TRAILER HAULED BY BEDFORD TRUCK

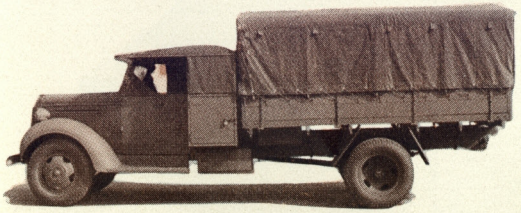


TYPICAL CHEVROLET TRUCK CONVOY LEAVING A GENERAL MOTORS-HOLDEN'S FACTORY

# MOTORS — HOLDEN'S LIMITED



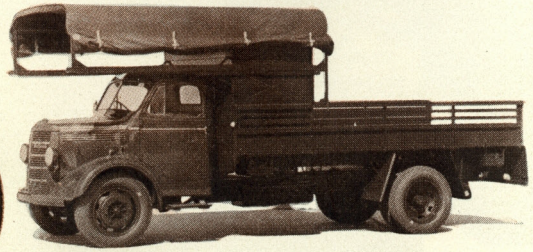
BEDFORD FIRE TENDER FOR R.A.A.F (Fire-fighting equipment supplied by Wormald Bros.)



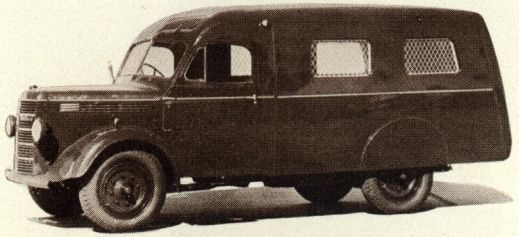
"MAPLE LEAF" GENERAL SERVICE UNIT (fitted with Sleeping Berth behind Cab)



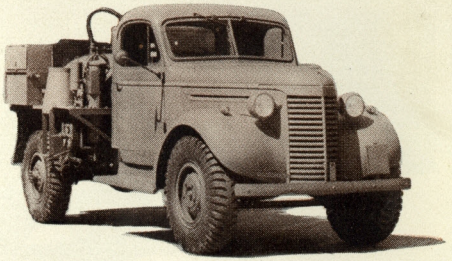
"MAPLE LEAF" BUS FOR R.A.N.



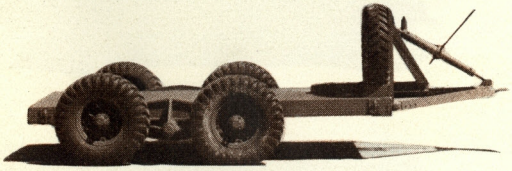
BEDFORD SLIDE TILT BODY UNIT FOR R.A.A.F



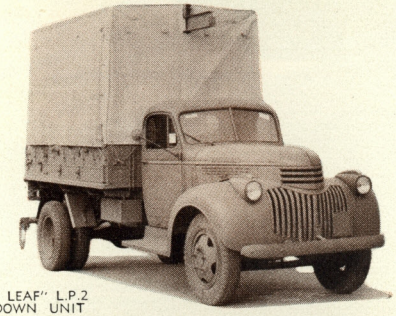
BEDFORD DUAL PURPOSE TRANSPORT FOR R.A.A.F



CHEVROLET WATER WAGON AND FILTRATION UNIT



RECOVERY TRAILER FOR A I F

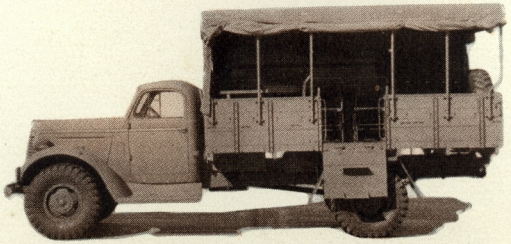


"MAPLE LEAF" L.P.2 BREAKDOWN UNIT



'MAPLE LEAF" L P 1 BREAKDOWN UNIT

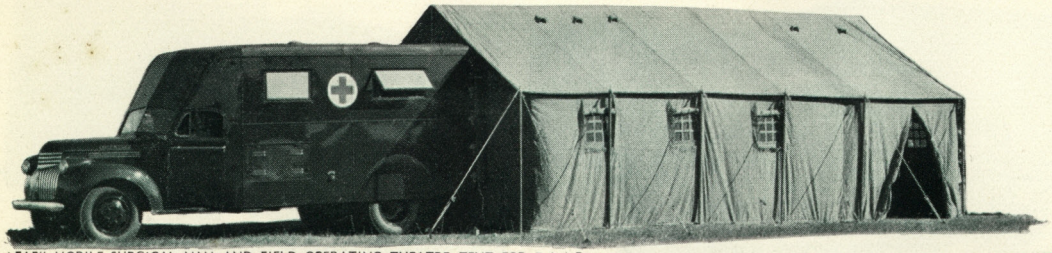




MAPLE LEAF" OFFICE BODY UNIT



"MAPLE LEAF" OFFICE BODY UNIT AND TENT

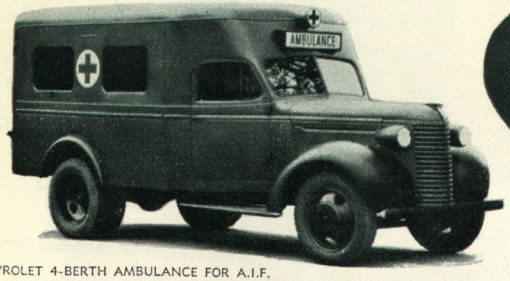


"MAPLE LEAF" MOBILE SURGICAL VAN AND FIELD OPERATING THEATRE TENT FOR R.A.A.F.

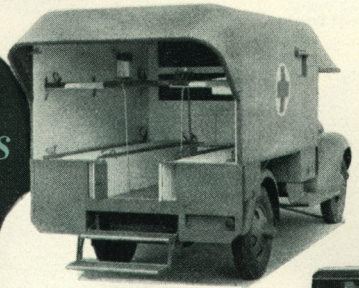


SPECIAL RED CROSS BLOOD BANK TRAILER (fittings and equipment added by Red Cross).

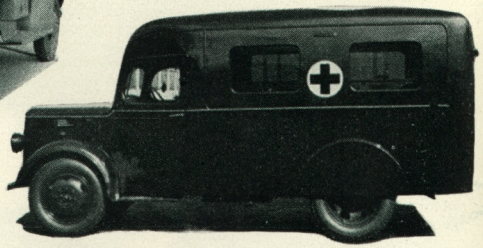
# *Medical and Surgical Units for the* FIGHTING SERVICES



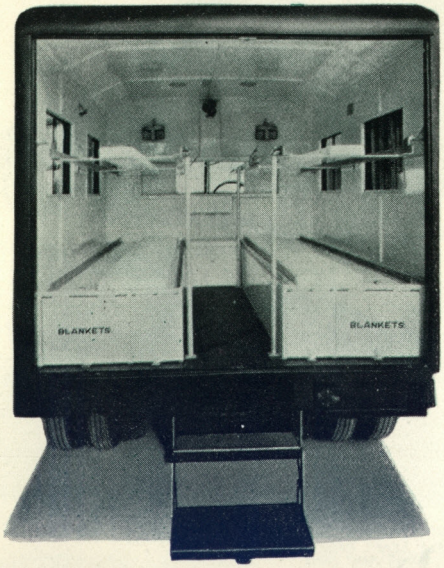

CHEVROLET 4-BERTH AMBULANCE FOR A.I.F.



CHEVROLET INDIAN TYPE 4-BERTH AMBULANCE FOR A.I.F.



BEDFORD 4-BERTH AMBULANCE FOR R.A.A.F.

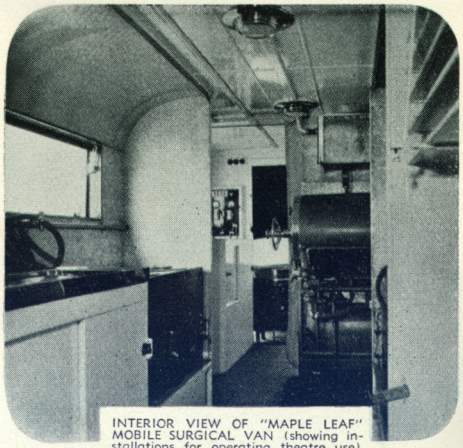



INTERIOR VIEW OF CHEVROLET 4-BERTH AMBULANCE FOR A.I.F.

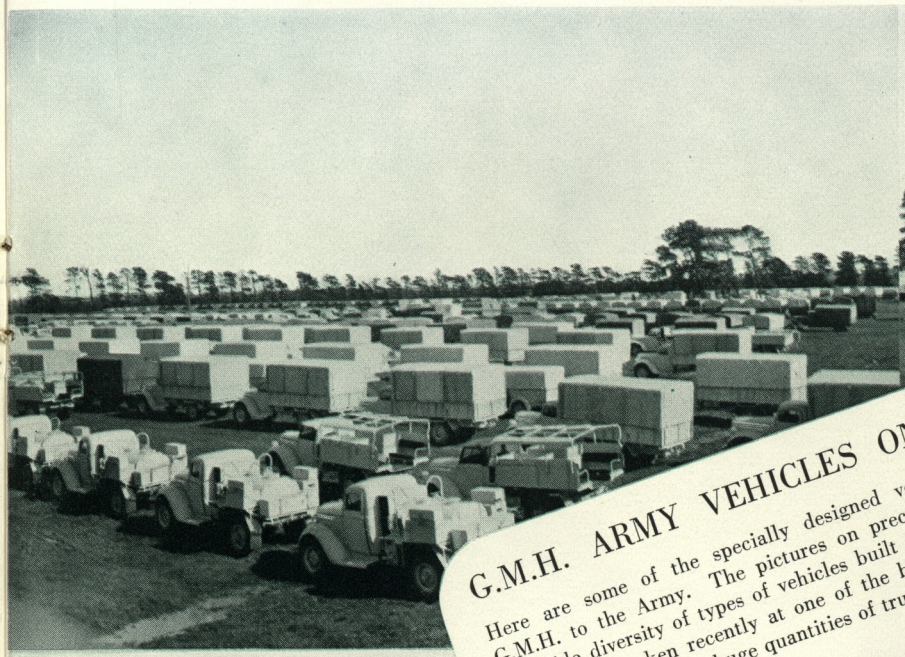
SURGICAL TRAILER FIELD OPERATING THEATRE TENT FOR A.I.F.




SURGICAL TRAILER FOR A.I.F.



INTERIOR VIEW OF "MAPLE LEAF" MOBILE SURGICAL VAN (showing installations for operating theatre use) FOR R.A.A.F.

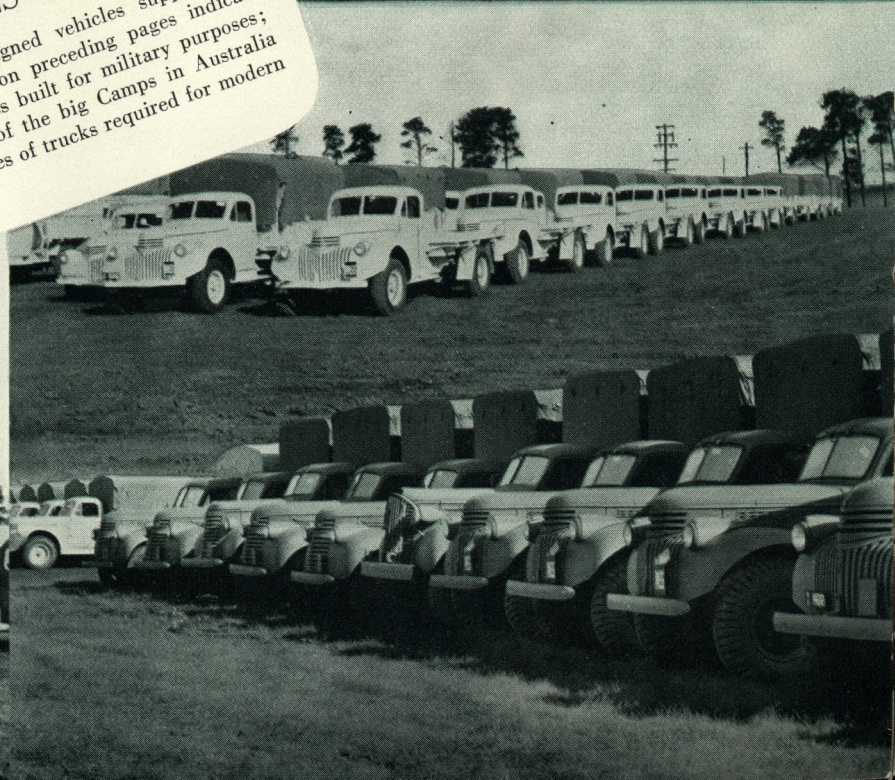


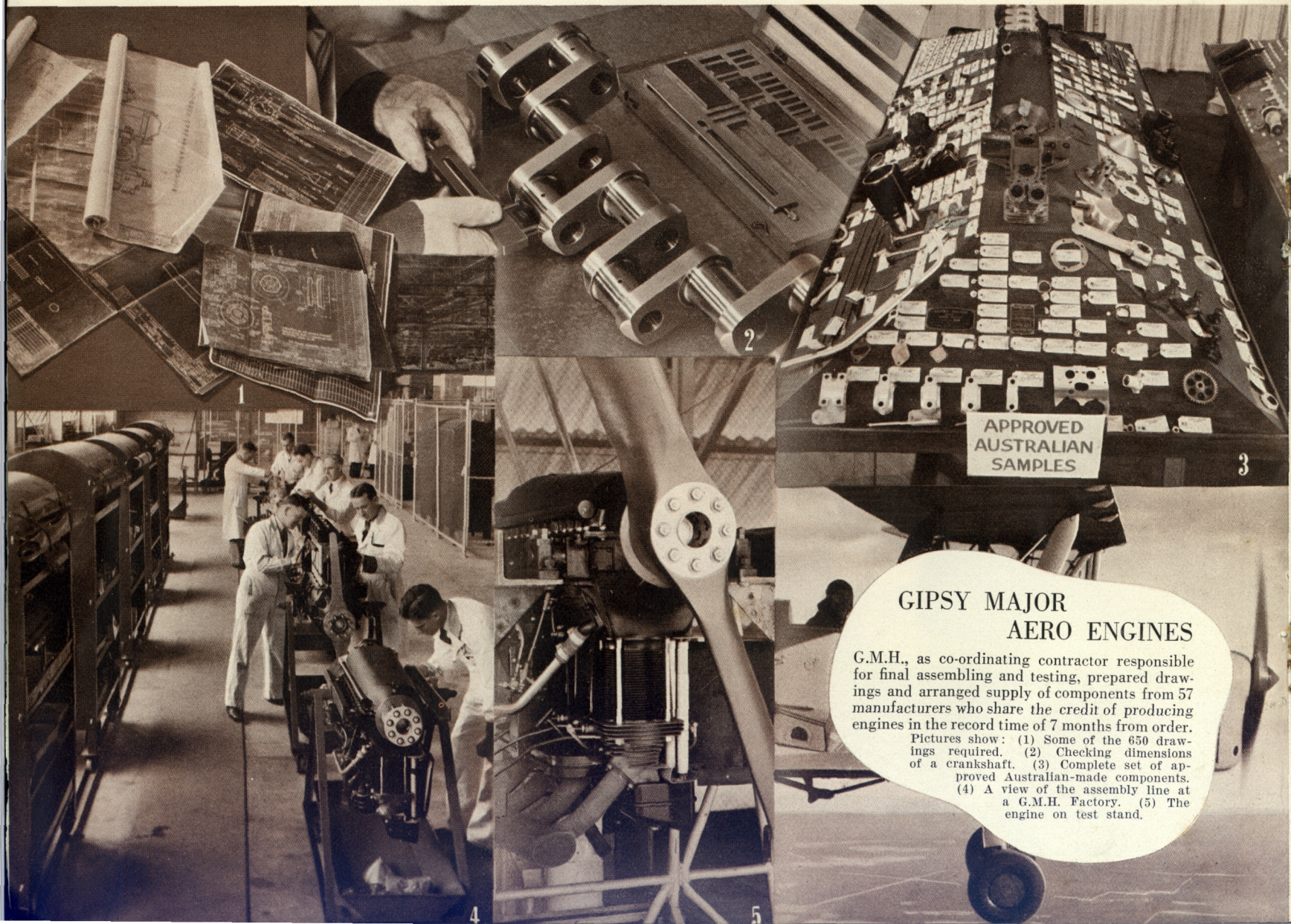


# G.M.H. ARMY VEHICLES ON PARADE

Here are some of the specially designed vehicles supplied by G.M.H. to the Army. The pictures on preceding pages indicate the wide diversity of types of vehicles built for military purposes; these views, taken recently at one of the big Camps in Australia give some idea of the huge quantities of trucks required for modern mechanised fighting forces.



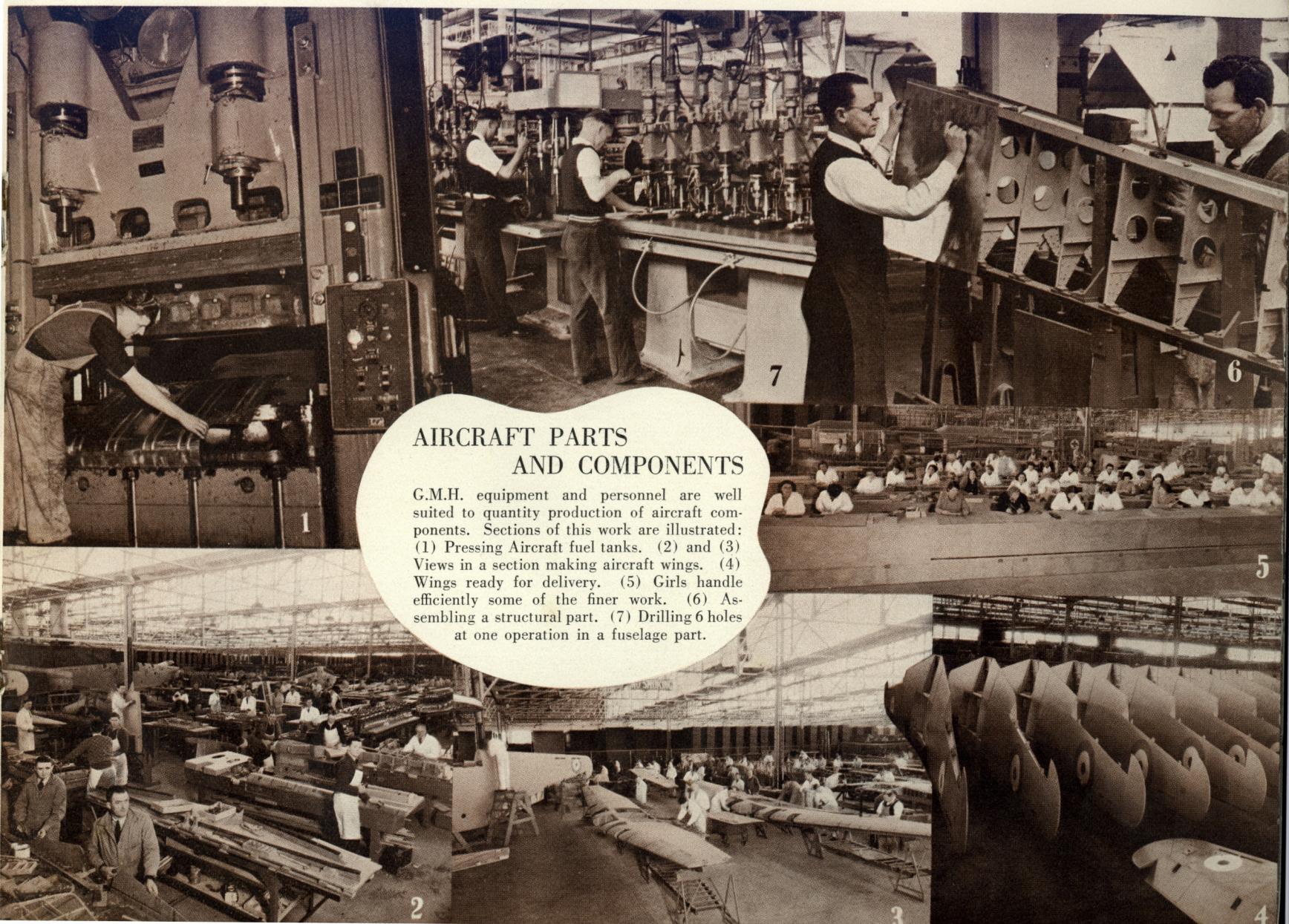





## GIPSY MAJOR AERO ENGINES

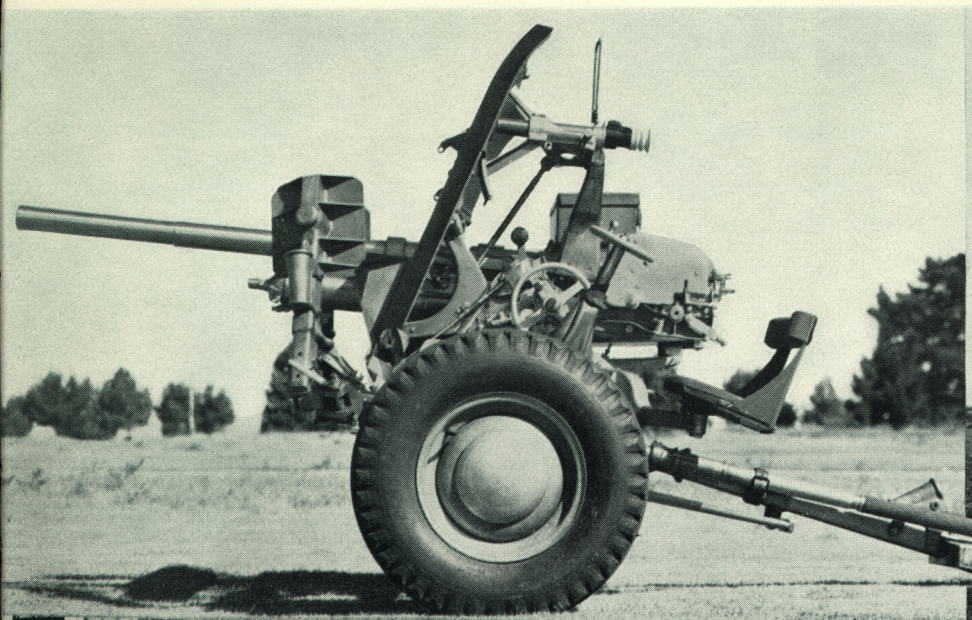
G.M.H., as co-ordinating contractor responsible for final assembling and testing, prepared drawings and arranged supply of components from 57 manufacturers who share the credit of producing engines in the record time of 7 months from order.

Pictures show: (1) Some of the 650 drawings required. (2) Checking dimensions of a crankshaft. (3) Complete set of approved Australian-made components. (4) A view of the assembly line at a G.M.H. Factory. (5) The engine on test stand.

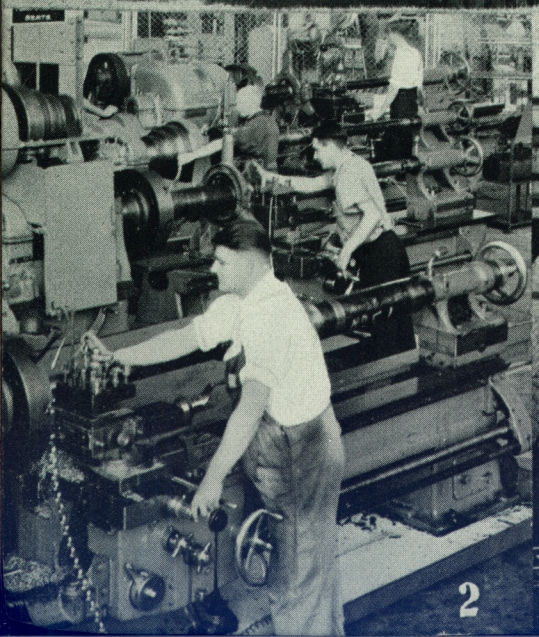


## AIRCRAFT PARTS AND COMPONENTS

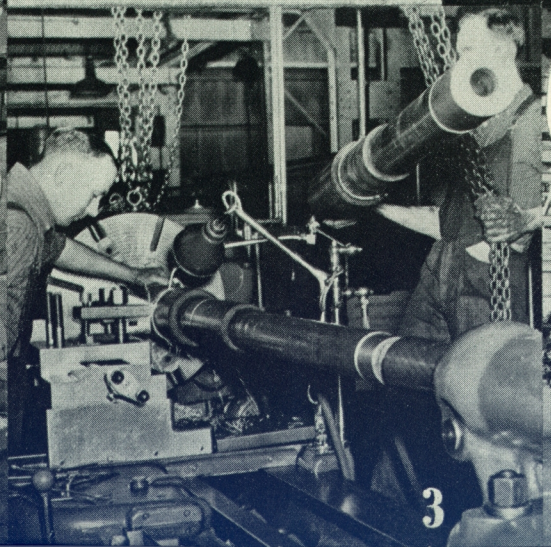
G.M.H. equipment and personnel are well suited to quantity production of aircraft components. Sections of this work are illustrated: (1) Pressing Aircraft fuel tanks. (2) and (3) Views in a section making aircraft wings. (4) Wings ready for delivery. (5) Girls handle efficiently some of the finer work. (6) Assembling a structural part. (7) Drilling 6 holes at one operation in a fuselage part.



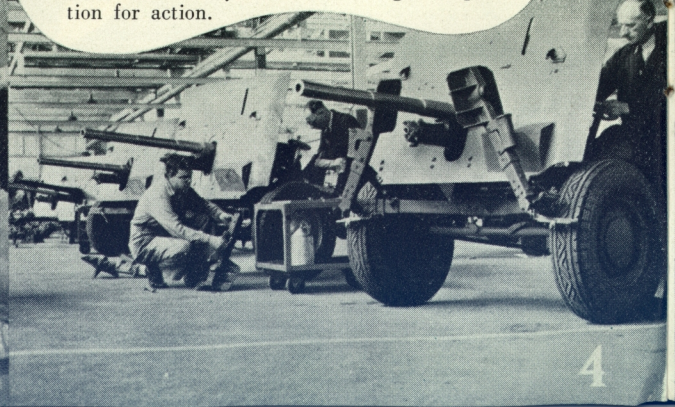
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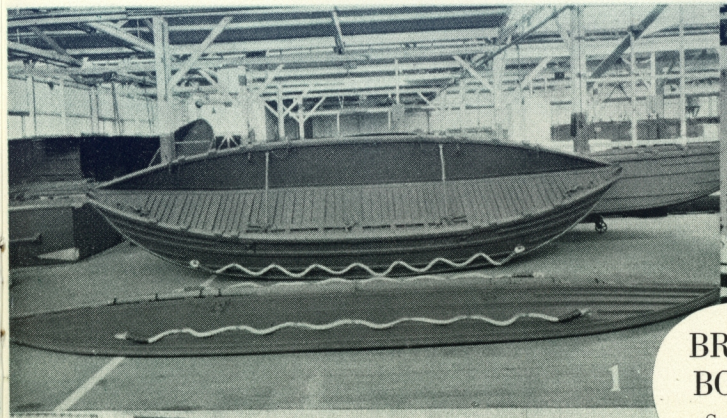


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## 2-POUNDER ANTI-TANK GUN

Quantity production of this complex gun was achieved in 9 months by the combined effort of more than 3,000 men in 50 engineering firms, G.M.H. acting as co-ordinating contractor. The gun is entirely Australian-made, even to the complicated telescopic sights.

(1) The complete gun. (2) and (3) Setting up and turning barrels at a G.M.H. factory. (4) The assembly line. (5) The gun in position for action.

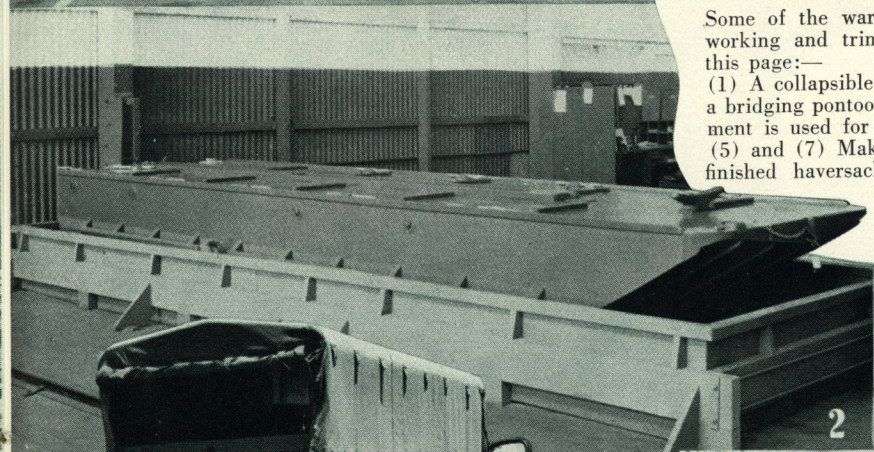

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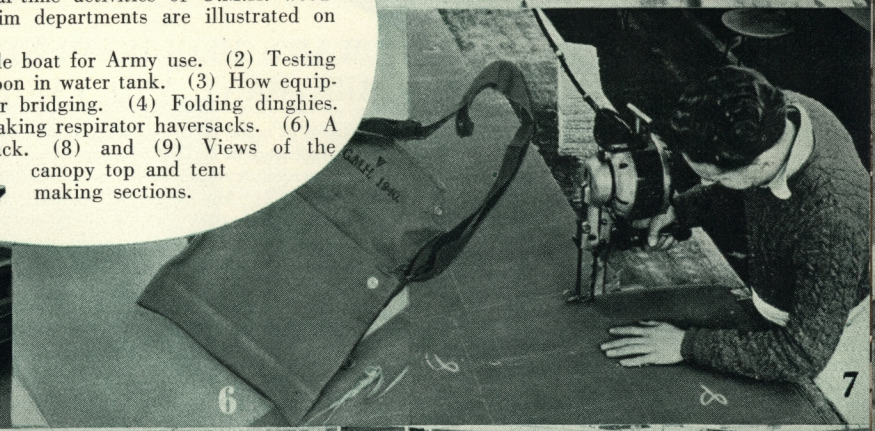

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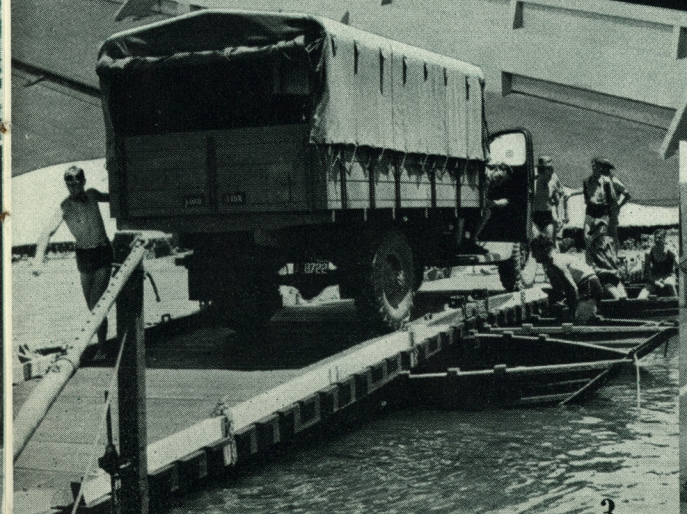
# BRIDGING PONTOONS AND BOATS . TENTS . HAVERSACKS

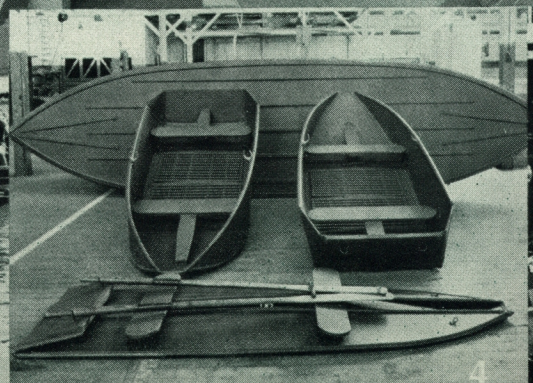
Some of the war-time activities of G.M.H. wood-working and trim departments are illustrated on this page:—
(1) A collapsible boat for Army use. (2) Testing a bridging pontoon in water tank. (3) How equipment is used for bridging. (4) Folding dinghies. (5) and (7) Making respirator haversacks. (6) A finished haversack. (8) and (9) Views of the canopy top and tent making sections.


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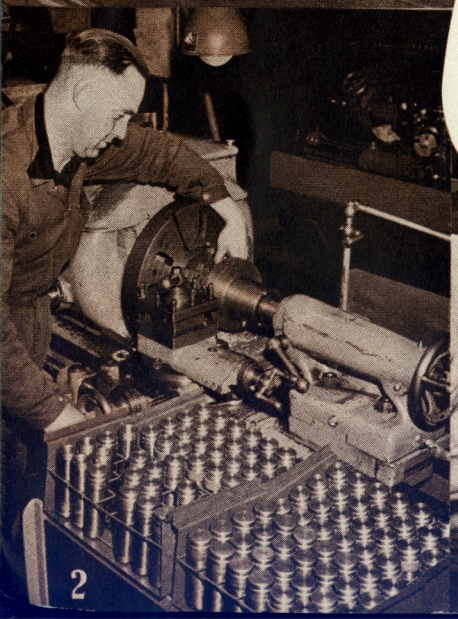
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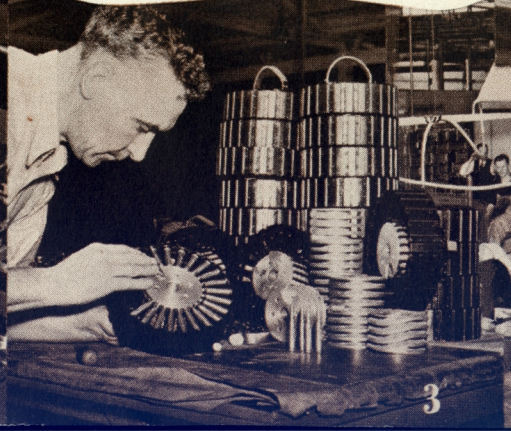

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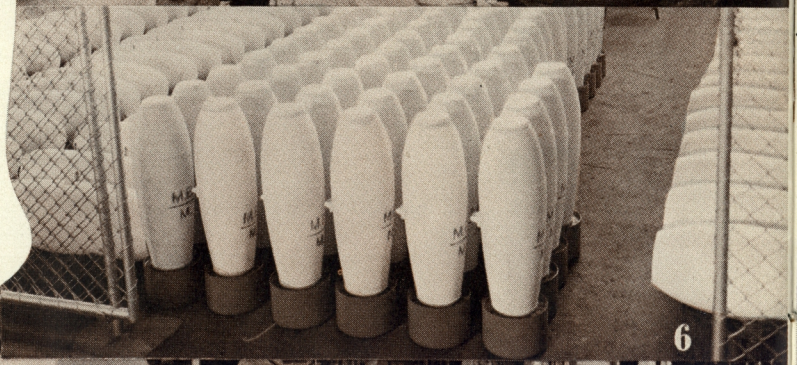

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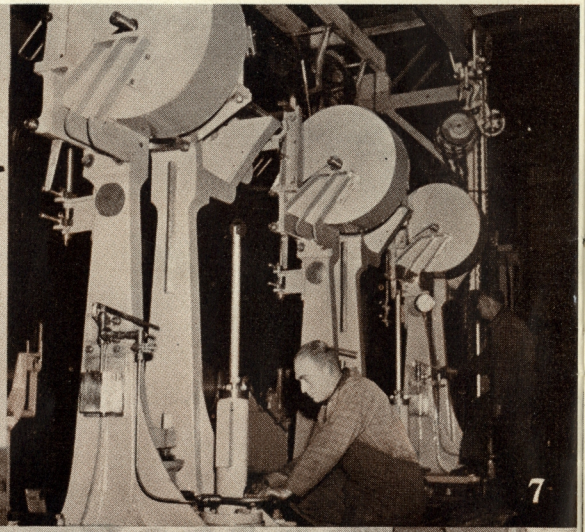

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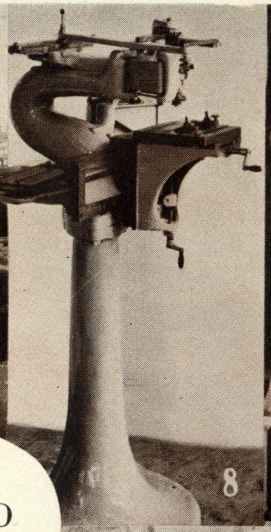

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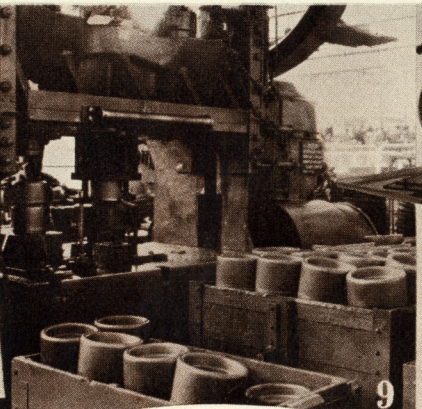

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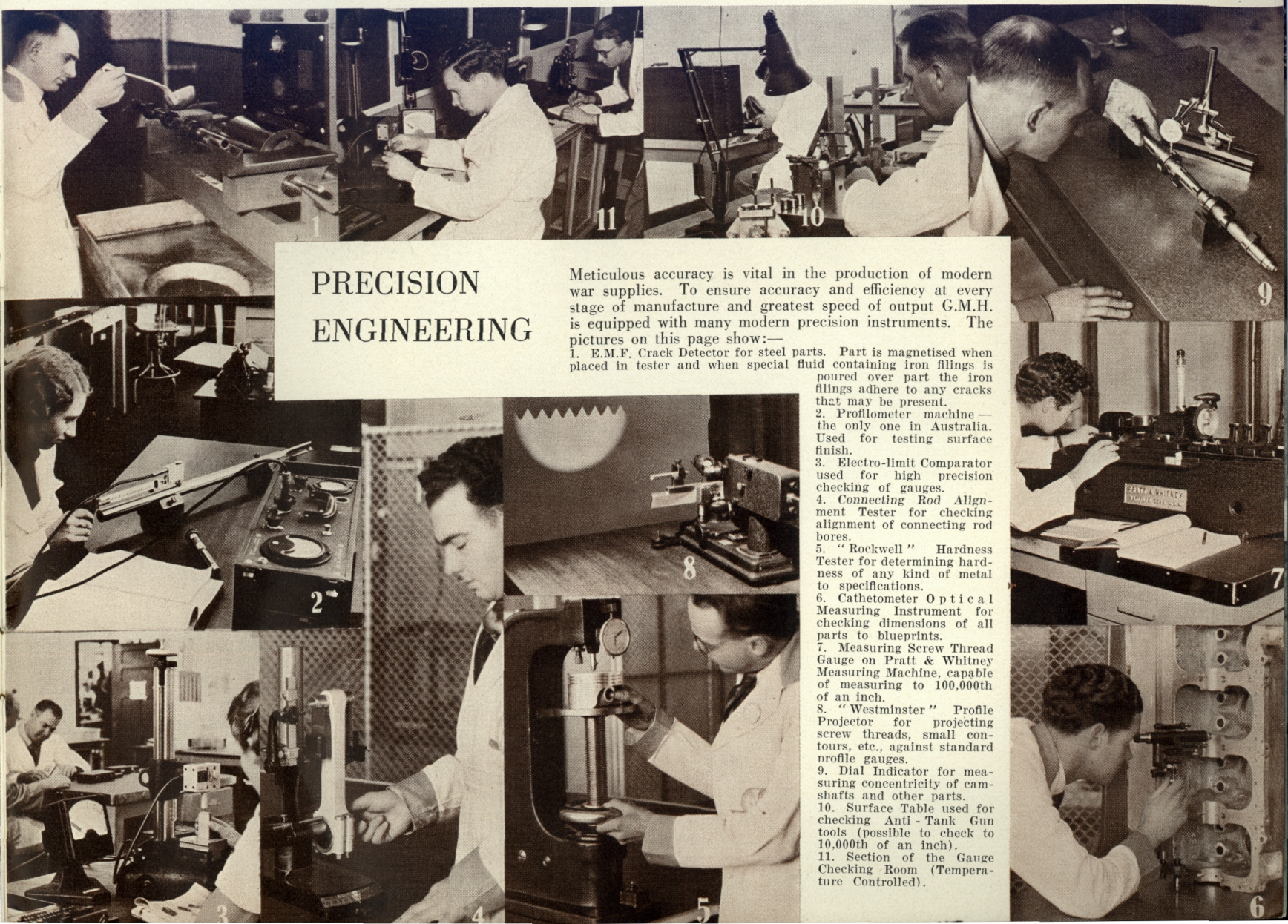

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## WAR'S REQUIREMENTS ARE MANY AND VARIED

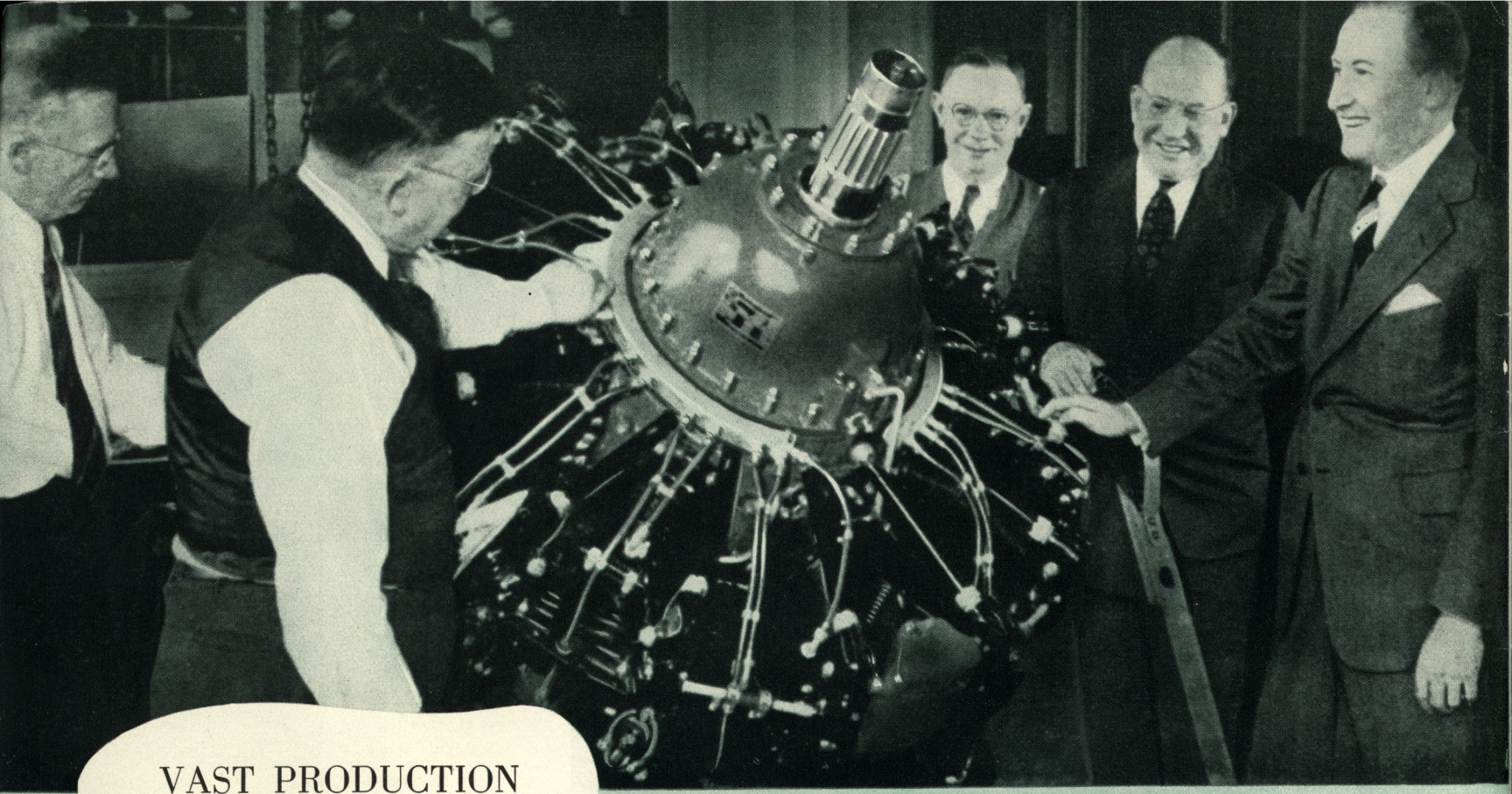
Pictures of some of the many supplies being manufactured in G.M.H. Factories:—
(1) Varnish-drying 250 lb. Anti-Submarine Bombs. (2) Machining 2-pounder Anti-aircraft shell cases. (3) Checking Lewis Gun Magazines. (4) Assembly of steel ammunition boxes. (5) Turning edges of army size steel truck wheels. (6) 100 lb. and 250 lb. bombs ready for shipment. (7) Cordite Extruding Presses. (8) Engraving machine. (9) Pressing bomb transit bases.




# PRECISION ENGINEERING

Meticulous accuracy is vital in the production of modern war supplies. To ensure accuracy and efficiency at every stage of manufacture and greatest speed of output G.M.H. is equipped with many modern precision instruments. The pictures on this page show:—

1. E.M.F. Crack Detector for steel parts. Part is magnetised when placed in tester and when special fluid containing iron filings is poured over part the iron filings adhere to any cracks that may be present.
2. Profilometer machine — the only one in Australia. Used for testing surface finish.
3. Electro-limit Comparator used for high precision checking of gauges.
4. Connecting Rod Alignment Tester for checking alignment of connecting rod bores.
5. "Rockwell" Hardness Tester for determining hardness of any kind of metal to specifications.
6. Cathetometer Optical Measuring Instrument for checking dimensions of all parts to blueprints.
7. Measuring Screw Thread Gauge on Pratt & Whitney Measuring Machine, capable of measuring to 100,000th of an inch.
8. "Westminster" Profile Projector for projecting screw threads, small contours, etc., against standard profile gauges.
9. Dial Indicator for measuring concentricity of camshafts and other parts.
10. Surface Table used for checking Anti-Tank Gun tools (possible to check to 10,000th of an inch).
11. Section of the Gauge Checking Room (Temperature Controlled).



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